Test Report
Consistency test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	11-Jan-2019

Executive Engineer Project Division Yelahanka Zone Bangalore

Sl. No	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	19	16	11	6.5	5.5

Results: Standard Consistency of Cement: 30.50%

Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Fineness test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Cement
Sample No	1
Date	11-Jan-2019

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	5	3.7
3	Percentage retained (%)	5	3.7
4	Average Percentage retained (%)	4.35	

Results: Residue of cement is: 4.35%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

Note:

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Test Report
Soundness test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	11-Jan-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	17	17	15
3	Difference or expansion	6	7	4
4	Average Differences or Expansion in mm	5.67		

Executive Engineer Project Division Yelahanka Zone Bangalore

Results: Difference in Expansion of Cement: 5.67mm

Comments: Maximum allowable Expansion of cement is 10mm.

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Test Report
Compressive strength test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Cement
Sample No	1
Date	21-Jan-2019

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
	43	7	-	0.81	70.6x70.6 x70.6	2301.8	182	4984.36	36.51	36.61
	43	7	-	0.84	70.6x70.6 x70.6	2387.1	183	4984.36	36.71	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Results: 7-days Compressive strength of cement is 36.61N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

Note:

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Insight Makes It Happen
MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report

Compressive strength test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Cement
Sample No	1
Date	11-Feb-2019

	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
Cube	43	28	-	0.805	70.6x70.6 x70.6	2287.0	227	4984.36	45.54	45.64
2	43	28	-	0.815	70.6x70.6 x70.6	2316	228	4984.36	45.74	

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

Results: 28-days Compressive strength of cement is 45.64N/mm^2

Comments: 28-days Compressive strength of cement should not be less than 43 N/mm^2

Note:

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Test Report
Gradation test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Date	11-Jan-2019

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone ll Specification for PQC
2	4.75 mm	13	6.50	6.50	93.50	90-100	
3	2.36 mm	18	9.00	15.50	84.50	75-100	
4	1.18 mm	13	6.50	22.00	78.00	55-90	
5	600 µ	45	22.50	44.50	55.50	35-59	
6	300 µ	57	28.50	73.00	27.00	8-30	
7	150 µ	42	21.00	94.00	6.00	0-10	

Note:

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Test Report
Gradation test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	11-Jan-2019

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	ive Percentage of	Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	492	12.30	12.30	87.70	85-95	
3	19.00	320	8.00	20.30	79.70	68-88	
4	9.50	635	15.88	36.18	63.83	45-65	
5	4.75	420	10.50	46.68	53.33	30-55	
6	0.60	950	23.75	70.43	29.58	8-30	
7	0.15	850	21.25	91.68	8.33	5-15	
8	0.08	250	6.25	97.93	2.08	0-5	

Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Water absorption test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	9-Jan-2019

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2024	2022	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1263	1259	
4	dry aggregate in Air	W_3 g	2059	2047	
5	Volume of the Aggregate	W_3- W_s	796	788	
6	Aggregate	W_4g	2020	2018	
7	Specific Gravity	W_4/(W_3- W_s)	2.54	2.56	2.55
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.67	2.66	2.66
9	Water Absorption	(W_4- W_3)*100/ W_4	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Test Report
Impact test

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Plain Cement Concrete(1:4:8)
Contractor	Sri.K.Gopireddy
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse aggregates
Sample No	1
Date	9-Jan-2019

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1304	1306
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	344	346
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	80	81
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	264	265
6	Aggregate Impact Value (w4 / w3)x100	%	23.26	23.41
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **23.33** %

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Concrete(M25)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	1
Date	8-Feb-2019

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.29	150*150*150	2160.00	370.00	0.0225	16.44	16.49	16.50
2	25	7	7.33	150*150*150	2171.85	375.00	0.0225	16.67		
3	25	7	7.19	150*150*150	2130.07	368.00	0.0225	16.36		
4	25	7	7.51	150*150*150	2225.19	372.00	0.0225	16.53	16.52	
5	25	7	7.32	150*150*150	2168.89	365.00	0.0225	16.22		
6	25	7	7.29	150*150*150	2160.30	378.00	0.0225	16.80		

Results: 7-days Compressive strength of cement is 16.50 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Concrete(M25)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Date	8-Feb-2019

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.39	150*150*150	2189.63	372	0.0225	16.53	16.58	16.59
2	25	7	7.43	150*150*150	2201.48	377	0.0225	16.76		
3	25	7	7.29	150*150*150	2159.70	370	0.0225	16.44		
4	25	7	7.61	150*150*150	2254.81	374	0.0225	16.62	16.61	
5	25	7	7.42	150*150*150	2198.52	367	0.0225	16.31		
6	25	7	7.39	150*150*150	2189.93	380	0.0225	16.89		

Results: 7-days Compressive strength of cement is 16.59 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Concrete(M25)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	3
Date	8-Feb-2019

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7.00	7.48	150*150*150	2216.30	374.00	0.0225	16.62	16.67	16.68
2	25	7.00	7.52	150*150*150	2228.15	379.00	0.0225	16.84		
3	25	7.00	7.38	150*150*150	2186.37	372.00	0.0225	16.53		
4	25	7.00	7.70	150*150*150	2281.48	376.00	0.0225	16.71	16.70	
5	25	7.00	7.51	150*150*150	2225.19	369.00	0.0225	16.40		
6	25	7.00	7.48	150*150*150	2216.59	382.00	0.0225	16.98		

Results: 7-days Compressive strength of cement is 16.68 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Concrete(M25)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Date	8-Feb-2019

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.58	150*150*150	2245.93	376.00	0.0225	16.71	16.76	16.77
2	25	7	7.62	150*150*150	2257.78	381.00	0.0225	16.93		
3	25	7	7.48	150*150*150	2216.00	374.00	0.0225	16.62		
4	25	7	7.80	150*150*150	2311.11	378.00	0.0225	16.80	16.79	
5	25	7	7.61	150*150*150	2254.81	371.00	0.0225	16.49		
6	25	7	7.58	150*150*150	2246.22	384.00	0.0225	17.07		

Results: 7-days Compressive strength of cement is 16.77 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Concrete(M25)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	5
Date	8-Feb-2019

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.67	150*150*150	2272.59	378.00	0.0225	16.80	16.84	16.86
2	25	7	7.71	150*150*150	2284.44	383.00	0.0225	17.02		
3	25	7	7.57	150*150*150	2242.67	376.00	0.0225	16.71		
4	25	7	7.89	150*150*150	2337.78	380.00	0.0225	16.89	16.87	
5	25	7	7.70	150*150*150	2281.48	373.00	0.0225	16.58		
6	25	7	7.67	150*150*150	2272.89	386.00	0.0225	17.16		

Results: 7-days Compressive strength of cement is 16.86 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-02 Construction of Samudhaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony.
Client	Project Division, Yelahanka Zone
Job No	MCTPL/BBMP/PMC/EE/YNK ZONE/2018-19/P-2/01/QR
Mix Type	Concrete(M25)
Contractor	Sri.K.Gopireddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	6
Date	3-Mar-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.77	150*150*150	2302.22	380.00	0.0225	16.89	16.93	16.95
2	25	7	7.81	150*150*150	2314.07	385.00	0.0225	17.11		
3	25	7	7.67	150*150*150	2272.30	378.00	0.0225	16.80		
4	25	7	7.99	150*150*150	2367.41	382.00	0.0225	16.98	16.96	
5	25	7	7.80	150*150*150	2311.11	375.00	0.0225	16.67		
6	25	7	7.77	150*150*150	2302.52	388.00	0.0225	17.24		

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Results: 7-days Compressive strength of cement is 16.95 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

MECADEZ

Authorised Signature